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CONTENTS

Foreword	page 1
Point Source Inventory	
Introduction	page 2
Definition of Terms and Abbreviations Used in the Point Source Inventory	page 4
Summary of Site Listings	page 5
Site Listings	page 6
Land Use Inventory	
Introduction	page 30
Classification Categories	page 32
Reference Section	page 33

FOREWORD

This report grew out of a request by EPA Enforcement Division, Region I for a series of studies to be done by the EPA Environmental Photographic Interpretation Center (EPIC) on the dumping of PCBs in New Bedford, Massachusetts. Six specific sites were analyzed: Aerovox Corp., Cornell-Dubilier, the New Bedford Municipal Landfill, Sullivan's Ledge, the New Bedford Municipal Sewage Treatment Plant and Clarks Cove.

Photographs of various portions of the city were acquired that span a range of time from 1938 to 1974. While the six sites of primary interest were being studied, it was observed that many areas of dumping, filling, and discharging were present in the New Bedford area. Members of both EPA Enforcement Division, Region I and EPIC agreed that a large-scale inventory of pollution point sources in the New Bedford area would be both an aid in the continuing monitoring of PCB dumping and a means for locating other previously unknown sources of pollution. A land use inventory was included as an aid in locating non-point pollution sources and areas that are particularly sensitive to pollution.

This report is divided into two sections: an inventory of the pollution point sources in the city of New Bedford, Massachusetts from 1938 to 1974, and a land use inventory for the same area accomplished with 1974 photographs.

POINT SOURCE INVENTORY

Introduction

This point source inventory attempts to locate and briefly describe specific sites in the New Bedford area that are potential sources of pollution.

The inventory was compiled from nine different years of photography. For some of these years, only partial coverage of the city was available in-house at EPIC. Additional imagery could be acquired, if necessary, for many of the sites.

A brief description of each site is given for each year of available photography. More detailed analysis of most of the sites can be provided at a later date, if necessary.

The pollution point sources found in New Bedford, Massachusetts fall into five general categories:

1. Areas of dumping and/or filling

In this report, dumping is used to describe areas where large pieces of refuse and debris, and/or mounded fine-textured material can be seen scattered on the ground surface. Filling refers to areas where primarily only fine-textured material is being used to fill a depression or build up the level of the ground surface. Often both of these activities can be seen at one site.

2. Industrial

Industrial point sources cover a broad range of activities including dumping and filling adjacent to industrial buildings, dumping of liquids on the ground and into nearby water bodies, leaching and spilling of materials from tanks, and airborne emissions from vents and smokestacks.

3. Extraction

Extraction in the New Bedford area consists primarily of relatively shallow sand and gravel pits. The pits do not appear to be inherent sources of pollution. However, they are frequently used as landfills and dumps after active mining has ceased. It is sometimes difficult to distinguish between active landfills and active extraction sites on small-scale photography.

4. Auto junk/salvage yards

Auto junk/salvage yards are sources of petroleum products that drain from the cars and the products of paint oxidation.

5. Sewage treatment plants

Sanborn Maps

Collateral data for some of the industrial sites listed in this inventory are available in the form of Sanborn Map Company Fire Insurance Maps. The name of the firm that occupied some of these industrial sites is available from the maps for various time periods in the past.

During the past century, Sanborn Map Company has published maps and atlases of more than 12,000 U.S. towns and cities. These are large-scale, highly detailed maps of commercial, industrial and residential buildings. They were designed to provide accurate, current and detailed information to fire insurance companies about the buildings they were insuring.

Although the maps were revised periodically, the exact dates of the revisions are not known. Three different sets of maps are referred to in this inventory: the first is dated 1924, the second was revised sometime between 1924 and 1950, and the third was revised between 1950 and 1975.

Definition of Terms and Abbreviations
Used in the Point Source Inventory

Descriptive:

assoc. -	associated
comm. -	commercial
conf. -	confirmed*
ind. -	industrial
NI -	No imagery was available in this year.
poss. -	possible*
prob. -	probable*

Directions:

E -	East
N, NE, NW -	North, Northeast, Northwest
S, SE, SW -	South, Southeast, Southwest
W -	West

Sanborn Maps:

SM 24 -	from Sanborn Map dated 1924
SM 50 -	from Sanborn Map revised between 1924 and 1950
SM 75 -	from Sanborn Map revised between 1950 and 1975

Symbols:

/ -	this symbol used between two different activities (i.e., landfill/dump, comm./ind.) indicates that aspects of both types of activity are present at the site.
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*The terms possible, probable and confirmed are terms used to indicate the degree of certainty that the photo analyst feels about a particular label.

SUMMARY OF SITE LISTINGS
(by site number)

TYPE	POSSIBLE	PROBABLE	CONFIRMED
Landfills and Dumps	2, 4, 5, 6, 15, 19, 28, 29, 35, 46, 59, 61, 71	11, 14, 16, 24, 42, 43, 51, 52, 53, 63, 64, 67	1, 7, 8, 9, 13, 14, 18, 20, 21, 23, 25, 28, 30, 36, 38, 39, 44, 48, 50, 57, 58, 60, 68, 69
Industrial		27, 30, 50, 55, 59	9, 21, 31, 32, 34, 45, 46, 47, 49, 54, 56, 57, 65, 66
Extraction	12, 13, 70	15, 16, 35, 36, 64	14, 37, 40, 44, 52
Auto Junk/ Salvage Yards			10, 17, 20, 22, 26, 33, 38, 41, 51, 62, 63
Sewage Treatment Plants			3, 71

DATE/ SITE NO.	1	2	3
1974	Two small landfills/ dumps.	Cleared lot--vehicu- lar activity, poss. refuse.	Small sewage treatment plant assoc. with building complex.
1967	NI	NI	NI
1966	NI	NI	NI
1962	NI	NI	NI
1961	NI	NI	NI
1956	NI	NI	NI
1951	NI	NI	NI
1947	NI	NI	NI
1938	NI	Forested	Cleared field
COMMENTS			

DATE/ SITE NO.	4	5	6
1974	Poss. small dump, adjacent to build- ing complex.	Prob. small landfill/ dump--disturbed ground, mounded material, poss. refuse.	Clear area in the woods--no signs of dumping.
1967	NI	NI	Poss. landfill; poss. assoc. with highway construction.
1966	NI	NI	NI
1962	NI	NI	NI
1961	NI	NI	NI
1956	NI	NI	NI
1951	NI	NI	NI
1947	NI	NI	NI
1938	Cleared field	Forested	Forested
COMMENTS			

DATE/ SITE NO.	7	8	9
1974	Mounded material.	Conf. filling.	Conf. dumping on lot of comm./ind. build- ing.
1967	Conf. filling, mounded material, poss. ground stain.	Cleared area--no signs of dumping.	Prob. filling, dis- turbed ground.
1966	NI	NI	NI
1962	NI	NI	NI
1961	NI	NI	NI
1956	Small building, one small lagoon, forest.	Forested	Forested, residential.
1951	NI	NI	NI
1947	NI	NI	NI
1938	Forested	Forested	Forested
COMMENTS			

DATE/ SITE NO.	10	11	12
1974	Auto Junkyard	Prob. open dumping of mounded material, refuse; two pools of standing liquid.	Poss. active extraction--pond, ground scarring.
1967	No change.	NI	NI
1966	NI	NI	NI
1962	NI	NI	NI
1961	Auto Junkyard	NI	NI
1956	Small Auto Junkyard	Poss. landfill	Cleared area, pond.
1951	NI	NI	NI
1947	NI	NI	NI
1938	Forested	Prob. dump with disturbed ground, earth removal.	Poss. extraction site in early stages--disturbed ground, network of small trails, less area than 1956.
COMMENTS			

DATE/ SITE NO.	13	14	15
1974	Area of earth removal. No signs of dumping, no abandoned cars.	Conf. dumping, prob. filling, active extraction.	Turner Pond has configuration shown on 1979 topo. map. Small cleared areas to SE.
1967	NI	NI	Heavy equipment, earth removal, lagoons.
1966	NI	NI	NI
1962	NI	NI	NI
1961	Conf. dump---abandoned cars, refuse, mounded material.	NI	NI
1956	Cleared area.	Cleared area, earth removal.	Turner Pond has configuration shown on 1979 topo. map. Small cleared areas to SE.
1951	NI	NI	NI
1947	NI	NI	Five cleared areas and four lagoons in location of SE arm of pond seen circa 1974.
1938	Cleared area, network of trails, poss. extraction site.	NI	Pond extends in a N-S direction only. Poss. extraction site to SE.
COMMENTS		Area labeled gravel pit on 1979 topographic map.	Large amounts of extraction and filling between 1938 and 1956. Type of fill material unknown.

DATE/ SITE NO.	16	17	18
1974	Prob. landfill/dump-- light-toned mounded material, 10 pools of standing liquid.	Auto Junkyard	Comm. buildings-- disturbed ground, mounded material on lot.
1967	Prob. active extrac- tion site--poss. refuse, standing liquid (no deep pits).	Auto Junkyard, 70+ cars.	Farmstead
1966	NI	NI	NI
1962	NI	NI	NI
1961	Smaller than 1967, no deep pits.	Small Auto Junkyard	
1956	Cleared area--prob. extraction, 5-6 small pools standing liquid, no deep pits.	Forested	Farmstead
1951	NI	NI	NI
1947	Small clearing-- disturbed ground, no deep pits.	Forested	Farmstead
1938	Small clearing	Forested	Farmstead
COMMENTS			

DATE/ SITE NO.	19	20	21
1974	Small comm. develop- ment--6+ small tanks, poss. drums, standing liquid.	Auto junkyard--no signs of dumping; large pond and small pool present.	Small ind. complex-- active landfill S of buildings.
1967	Small comm. develop- ment, cleared lot.	Auto junkyard & small landfill--standing liquid, large pond.	Active landfill, smaller than 1974.
1966	NI	NI	NI
1962	NI	NI	NI
1961	Forested	Small auto junkyard-- refuse.	Active landfill, smaller than 1967.
1956	Forested	Small auto junkyard-- mounded material, refuse.	Active landfill, smaller than 1961. New buildings and parking lot over old lot and lagoon.
1951	NI	NI	NI
1947	Forested	Disturbed ground, dirt trails, poss. dumping.	Small ind. complex. Old buildings. Active landfill smaller than 1956. No lagoon, mounded material, dis- turbed ground.
1938	Forested	Mixed forest and rangeland.	Active landfill. Mounded material on lot near building. One small lagoon.
COMMENTS			SM 24 through SM 75-- John I Paulding Inc., manufacturer of electrical wiring devices.

DATE/ SITE NO.	22	23 New Bedford Municipal Landfill	24
1974	Auto Junkyard	Ground stains, diked pools of standing liquid, heavy equip- ment.	Small comm./ind. complex built over old dump/landfill.
1967	Auto Junkyard	Prob. ground stains.	Prob. landfill/dump; mounded material.
1966	NI	NI	NI
1962	NI	NI	NI
1961	Auto Junkyard	Prob. ground stains.	Prob. landfill/dump.
1956	Small Auto Junkyard	Standing liquid, ground stains, leachate.	Prob. small landfill/ dump.
1951	NI	NI	NI
1947	Forested, small field.	Prob. ground stains.	Forested
1938	Forested, small field.	In operation. Prob. ground stains.	Forested
COMMENTS		Incinerator on-site in all years of imagery. Surface area of fill in- creases every year.	

DATE/ SITE NO.	25	26	27
1974	Conf. dump--truck trailers, refuse, mounded material.	Auto junk/salvage yard--ground stains.	Small ind. complex--prob. dumping, prob. refuse, poss. standing liquid.
1967	Forested	Auto junk/salvage yard--ground stains.	Prob. dumping, mounded material, standing liquid.
1966	NI	NI	NI
1962	NI	NI	NI
1961	Forested	Auto junk/salvage yard--ground stains.	Poss. drums and mounded material in storage yard.
1956	Forested	Cleared area, one small building.	Poss. ground stains.
1951	NI	NI	NI
1947	Forested	Cleared area, one small building.	NI
1938	Forested	Forested	Buildings present, no signs of dumping.
COMMENTS			SM 75 and SM 50--Continental Screw Co.--manufacturer of screws. SM 24--Continental Wood Screw Co.

DATE/ SITE NO.	28	29	30
1974	Vacant lot west of comm. building--earth removal, conf. dumping. Yard next to building has poss. ground stains, stored equipment.	Comm. buildings and storage yards--no signs of dumping.	Light ind. buildings and lots--scattered refuse, poss. ground stains.
1967	Vacant lot--poss. landfill.	Ground scarring, poss. refuse.	Conf. dumping--mounded material, ground stains, 1 pool of standing liquid.
1966	NI	NI	NI
1962	NI	NI	NI
1961	NI	No signs of dumping.	Pool of standing liquid.
1956	Vacant lot, partially cleared. Yard has poss. refuse and vehicles.	Ground scarring.	Pool of standing liquid.
1951	NI	NI	NI
1947	Vacant lot, partially cleared. Yard has poss. refuse and vehicles.	Ground scarring.	Two pools of standing liquid.
1938	Area cleared. Non-agricultural.	No signs of dumping.	Prob. refuse
COMMENTS	SM 75--Standard Grocery Co.	SM 75--Auto sales and service, car wash, building supply company, machine shop. SM 50--Vacant SM 24--Cotton mill and Beacon Mfg. Co.	SM 75--manufacturing plant SM 50--Crescent Corp. SM 24--Pierce Bros. Ltd., cotton mill.

DATE/ SITE NO.	31	32	33
1974	Storage area next to river--refuse, prob. drums, poss. ground stains, trenches from buildings to river.	No plume in water, no signs of dumping.	Auto junk/salvage yard.
1967	Prob. refuse, trenches from building to river.	NI	Auto junk/salvage yard.
1966	NI	NI	Auto junk/salvage yard.
1962	NI	Large light-toned plume in water off-shore of plant.	Auto junk/salvage yard.
1961	Prob. refuse, trenches from building to river.	No plume, no signs of dumping.	Auto junk/salvage yard.
1956	Prob. refuse, trenches from building to river.	Poss. plume in water.	Auto junk/salvage yard.
1951	Prob. refuse, trenches from building to river.	No plume, no signs of dumping.	Auto junk/salvage yard.
1947	NI	Poss. refuse	Residential area.
1938	NI	NI	NI
COMMENTS	SM 50 through SM75--Aerovox Corp.--known producer of electrical capacitors and user of PCBs.	SM24--Nonquitt Spinning Co. SM50 through SM75--Nonquitt Mills; SM75--partially controlled by Aerovox Corp.	

DATE/ SITE NO.	34	35	36
1974	Ind. building--poss. refuse, mounded material, no plumes.	Undeveloped area-- no signs of activity.	Dump/poss. extraction Light-toned cylindri- cal objects (poss. containers), mounded material, earth removal, one pool standing liquid.
1967	Light-toned mounded material, no plumes.	Undeveloped area-- no signs of activity.	NI
1966	NI	Extraction site, poss. active. No signs of dumping.	NI
1962	Light-toned mounded material, no plumes.	Extraction site, poss. active. No signs of dumping.	Light-toned mounded material, standing liquid, network of dirt trails.
1961	One plume in the water offshore of plant.	Extraction site, poss. active. No signs of dumping.	One pool standing liquid, ground scarring.
1956	No plumes.	Earth removal, poss. landfill, poss. standing liquid.	Ground scarring, two pools standing liquid.
1951	Two plumes visible in water offshore of plant.	Earth removal, poss. landfill.	Poss. extraction/dump Large amount of earth removal, ground scar- ring, cleared vegeta- tion, poss. dumping.
1947	Disturbed ground, poss. refuse.	Ground scarring.	NI
1938	Disturbed ground, poss. refuse.	NI	NI
COMMENTS	SM 75--manufacturer steel sinks, plating works, electronics manufacturer, New Bedford Rayon Co. SM 50--Stokely Bros. Inc., New Bedford Rayon Co. SM 24--Whitman Mills, Stokely Bros. Inc.		

DATE/ SITE NO.	37	38	39
1974	Active extraction site--4 revetted lagoons prob. assoc. with washing facility standing pools in bottom of quarry	Active landfill--50+ Junked cars, ground stains, mounded material.	Conf. dump.
1967	Active extraction site.	Active landfill--60+ Junked cars.	NI
1966	NI	NI	NI
1962	Active extraction site.	Landfill larger than 1961--400+ junked cars.	Trench (dry).
1961	NI	Landfill larger than 1956--100+ abandoned cars.	Trench (dry).
1956	Active extraction site.	Active landfill--20+ junked cars; shed.	Prob. dumping, trench with standing liquid.
1951	NI	Small landfill-- poss. standing liquid.	Clearing in trees-- poss. dumping.
1947	NI	NI	NI
1938	NI	NI	NI
COMMENTS			

DATE/ SITE NO.	40	41	42
1974	Extraction site, not active.	150+ auto junk yard- cars.	Clearing in woods-- dirt trail to site, no signs of dumping.
1967	Active extraction site.	NI	NI
1966	NI	NI	NI
1962	Extraction site, poss. active.	70+ Auto junk yard- cars.	Clearing in woods-- dirt trail to site, no signs of dumping.
1961	Extraction site, poss. active.	NI	NI
1956	Active extraction site.	Cleared area, 15+ Auto junk yard- cars.	Clearing in woods-- prob. open dump, dis- turbed ground, mounded material.
1951	Prob. extraction site.	NI	NI
1947	NI	NI	NI
1938	NI	NI	NI
COMMENTS			

DATE/ SITE NO.	43	44 Sullivan's Ledge	45
1974	Poss. dump- Small building, one revetted lagoon, refuse, abandoned cars.	Large extraction area now completely filled. Active dump- ing, standing liquid.	Industrial buildings and lot--no signs of dumping.
1967	NI	Grading scars, fill- ing, equipment.	NI
1966	NI	NI	NI
1962	NI	NI	Mounded material.
1961	NI	Filling.	No signs of dumping.
1956	Residential/agricul- tural. No signs of dumping.	Filling.	Disturbed ground, poss. ground staining, refuse.
1951	NI	NI	NI
1947	NI	Active extraction site.	NI
1938	NI	Active extraction site.	Disturbed ground, poss. ground staining, refuse.
COMMENTS		A man-made drainage channel can be seen east of the site from 1956 to 1974.	SM 75--Fair Haven Mills SM 50--Fair Haven Mills and Oregon Dye Co., Inc. SM 24--Fair Haven Mills

DATE/ SITE NO.	46	47	48
1974	Industrial buildings and lot--disturbed ground, ground staining, poss. filling.	Refuse in yard adjacent to river.	Some revegetation. No signs of dumping.
1967	NI	NI	NI
1966	NI	NI	NI
1962	Refuse, standing liquid, plume in water offshore of site.	Ground staining, mounded material.	No revegetation. Small amount of conf. dumping.
1961	Standing liquid, refuse.	Poss. ground staining.	No revegetation. No signs of dumping.
1956	Tanks are gone. No signs of dumping.	Prob. refuse and drums, ground scarring. No lagoons.	No revegetation. No signs of dumping.
1951	NI	NI	NI
1947	NI	NI	NI
1938	2 large, closed, revetted tanks. No signs of dumping.	1 small lagoon, prob. ground staining, refuse, disturbed ground, mounded material.	A diked area is being covered with material dredged from New Bedford Harbor.
COMMENTS	SM 75--Alpine Marine Protein Industries, manufacturer of fish meal products SM 50--New Bedford Fish Products Corp. SM 24--New England Oil Refining Co.	2 smokestacks are visible on all years of imagery. SM 75 and SM 50--Revere Copper and Brass Inc. SM 24--Grinnell Mfg. Co. and Taunton - New Bedford Copper Co.	

DATE/ SITE NO.	49	50	51
1974	Railroad yard-- refuse, mounded material, poss. standing liquid.	Conf. dump (prob. industrial)--large scale earth removal, trenches with stand- ing liquid, lagoons, ground staining, refuse, mounded material.	Small dump--mounded material, poss. refuse. No abandoned cars.
1967	NI	NI	NI
1966	NI	NI	NI
1962	Mounded material, ground staining, refuse.	NI	NI
1961	Mounded material, ground staining, refuse.	NI	Disturbed ground, abandoned cars.
1956	Prob. ground stain- ing.	NI	Disturbed ground, abandoned cars, poss. ground staining.
1951	NI	NI	NI
1947	NI	NI	2 residences--no signs of dumping.
1938	Yard in operation.	NI	2 residences--no signs of dumping.
COMMENTS	SM 75--Penn. Central R.R. SM 50 and SM 24-- N.Y.N.H. and H.R.R.		

DATE/ SITE NO.	52	53	54
1974	Prob. landfill-- refuse. Well-defined trails from site to 1 large and 2 small pools standing liquid. No build- ings.	Lot partially paved; boat storage. No dumping.	N. side of island-- revetted fuel oil tanks. S. side of island-- prob. refuse, poss. standing liquid, poss. ground staining.
1967	Extraction site, poss. active. Poss. filling. Buildings present.	NI	NI
1966	NI	NI	NI
1962	NI	NI	NI
1961	Active extraction site--1 building, trucks.	Dirt lot--ground scarring, poss. refuse.	N. side of island-- 10 large revetted fuel oil tanks, poss. ground staining. S. side of island-- poss. ground staining.
1956	Active extraction site--1 building, 1 pool standing liquid and 1 revetted lagoon.	Dirt lot--ground scarring, poss. refuse.	N. side of island-- 10 fuel oil tanks, poss. ground staining, poss. standing liquid. S. side of island-- poss. ground staining.
1951	NI	NI	NI
1947	Active extraction site--1 building.	NI	NI
1938	Active extraction site--no buildings.	Prob. dumping on dirt lot--disturbed ground, mounded material, poss. ground staining.	N. side of island-- 10 fuel oil tanks, poss. ground staining, poss. standing liquid. S. side of island-- poss. ground staining.
COMMENTS		SM 75--New Bedford Marina and various comm. buildings.	SM 75--Marine Pro- ducts Corp., Glen Coal and Oil Co. SM 50--David Duff and Son Coal Wharf SM 24--Standard Oil Co. of New York, W.F. Nye Oils.

DATE/ SITE NO.	55	56	57
1974	4 revetted tanks (prob. containing fuel oil), conf. ground staining.	Old buildings gone, old areas of dumping paved over--poss. ground staining.	Lot behind industrial building--round lagoon with standing liquid, square lagoon dry, conf. dumping, mounded material.
1967	NI	NI	NI
1966	4 revetted tanks, poss. ground stain- ing.	Conf. refuse, mounded material, standing liquid, prob. ground staining.	NI
1962	NI	Conf. refuse, mounded material, standing liquid.	Round lined lagoon, square unlined lagoon, conf. landfill, refuse, mounded material, prob. ground staining.
1961	Revetted tanks, poss. ground staining.	Poss. ground stain- ing, poss. refuse.	NI
1956	NI	NI	NI
1951	3 revetted tanks, conf. ground stain- ing outside revet- ments.	Standing liquid, mounded material, prob. refuse, smoke- stacks.	NI
1947	NI	NI	NI
1938	3 revetted tanks, conf. ground stain- ing outside revet- ments.	Industrial buildings and lot--2 smoke- stacks, mounded material, prob. refuse, poss. ground staining.	NI
COMMENTS	SM 75 through SM 24-- New Bedford Gas and Edison Light Co. SM 50 and SM 24-- also a lumber yard on-site. SM 24 only--Phila- delphia and Reading Coal and Iron Co.	SM 75--fish process- ing plants SM 50--mills SM 24--cotton mills	Stream flowing across this lot empties into New Bedford Harbor. SM 50 and SM 24-- Atlas Tack Corp., manufacturer of nails, rivets, hooks and eyes.

DATE/ SITE NO.	58	59	60
1974	Small dump.	Fenced yard behind small building-- poss. drums, standing liquid, ground staining. Outside yard-- standing liquid.	Grading scars, mounded material, man-made channel from lot to river.
1967	NI	NI	NI
1966	NI	NI	Mounded material.
1962	NI	Conf. refuse, standing liquid, ground staining.	Conf. dumping of dirt, poss. standing liquid, poss. refuse.
1961	NI	NI	NI
1956	NI	NI	NI
1951	NI	Poss. dumping along shoreline.	Mounded material, refuse.
1947	NI	NI	NI
1938	NI	No signs of dumping.	Mounded material, prob. ground staining.
COMMENTS			No signs of dumping are ever visible at playground site seen on the land use overlay.

DATE/ SITE NO.	61	62	63
1974	Lot paved, no signs of dumping.	Large auto junk/ salvage yard.	Mounded material, 2-3 abandoned cars.
1967	NI	NI	NI
1966	Lot paved, no signs of dumping.	NI	NI
1962	NI	NI	NI
1961	NI	Large auto junk/ salvage yard.	Clearing in woods-- poss. refuse, 25+ abandoned cars.
1956	NI	NI	NI
1951	NI	NI	NI
1947	NI	NI	NI
1938	Lot N of industrial buildings--poss. refuse, prob. ground staining, prob. standing liquid.	Forested.	Small clearing in woods--poss. refuse.
COMMENTS		A stream flows through the junk yard.	

DATE/ SITE NO.	64	65	66
1974	Prob. extraction site--deep pit.	Industrial buildings and lot--mounded material, ground staining, refuse, no lagoons.	Poss. drums, prob. ground staining, prob. standing liquid, poss. discharge into Harbor.
1967	NI	NI	NI
1966	Ground scarring, prob. refuse, mounded material.	Mounded material, refuse, prob. ground staining, 1 small lagoon.	NI
1962	NI	Conf. refuse, 1 small lagoon, 2 drainage channels cut in mud flats offshore.	Refuse, ground staining, standing liquid, mounded material, prob. discharge into Harbor.
1961	Cleared area, no signs of dumping.	Refuse, no lagoons.	Refuse, ground staining.
1956	NI	NI	NI
1951	NI	Disturbed ground, refuse, poss. discharge into water. Lagoons dry.	Mounded refuse, poss. waste burial, prob. discharge into Harbor.
1947	NI	NI	NI
1938	Cleared area, no signs of dumping.	Disturbed ground, refuse, 4 revetted lagoons, poss. tanks.	Poss. standing liquid, poss. ground staining.
COMMENTS	A stream flows through this area into Clarks Cove.	2 smokestacks visible on all years of imagery. SM 75---N. mill owned by Erika Realty Trust E. mill owned by Clarks' Cove Realty Inc. SM 50 and SM 24---Kilburn Mill, cotton mill	SM50 through SM75---Cornell-Dubilier---a known manufacturer of electrical capacitors, and user of PCBs.

DATE/ SITE NO.	67	68	69
1974	Small clearing in woods--prob. dump.	Conf. landfill--standing liquid, large pond on site.	Conf. dump--disturbed ground, mounded material, poss. refuse, poss. standing liquid, poss. ground staining.
1967	NI	NI	NI
1966	Small clearing in woods--prob. dump.	Conf. filling, large pond on site.	Mounded material.
1962	Small clearing in woods--prob. dump.	Conf. filling, earth and refuse, large pond on site.	Conf. filling, standing liquid.
1961	Small clearing in woods--prob. dump.	Prob. filling, large pond on site.	Poss. filling, disturbed ground, mounded material.
1956	NI	NI	NI
1951	Small clearing in woods--prob. dump.	Poss. dumping, no pond on site.	Agricultural field or lawn.
1947	NI	NI	NI
1938	NI	Poss. dumping, large pond on site.	NI
COMMENTS	A dirt road provides easy access to this site from the industrial buildings to the E. SM 75--Rodney Metals Inc. SM 50--mill SM 24--cotton mill		

DATE/ SITE NO.	70	71	
1974	NI	Sewage treatment plant--poss. filling on-site.	
1967	NI	NI	
1966	NI	Prob. outfall. No sewage treatment plant.	
1962	NI	Prob. outfall. No sewage treatment plant.	
1961	Poss. extraction site--standing liquid, ground scarring.	Prob. outfall. No sewage treatment plant.	
1956	NI	NI	
1951	NI	Prob. outfall. No sewage treatment plant.	
1947	NI	NI	
1938	NI	NI	
COMMENTS		Plant appears too small to adequately treat all sewage from New Bedford.	

LAND USE INVENTORY

Introduction

The land use inventory of New Bedford divides the entire city into discrete areas of different types of land use and labels them accordingly. A complete list of these categories is provided on page 32.

Sensitive Environments

A land use inventory of this type can be used to locate "sensitive environments." These are areas of land use that are particularly threatening if they become polluted. These would include the places where people work and play; areas where they raise their food; bodies of water they use for drinking water, fishing and recreation; and wetland areas that are wildlife habitats.

In the New Bedford area the following land use categories would be considered sensitive environments:

- 11 Residential
- 12 Commercial/Services/Institutional
 - 124 Schools/Churches
 - 128 Water Treatment Facilities
- 17 Other Urban
 - 173 Recreation - Golf Courses, Ski Areas, Playgrounds
 - 175 Parks
- 21 Cropland
- 22 Orchards
- 23 Feeding Operations
- 24 Cranberry Bogs
- 51 Waterways, Streams and Canals
- 52 Lakes (Natural)
- 53 Reservoirs (Man-made)
- 54 Bays and Estuaries
- 61 Forested Wetlands
- 62 Nonforested Wetlands

Non-Point Water Pollution Sources

Non-point water pollution sources include the many streams and rivulets that carry pollutants off the land into major bodies of water.

Dairies and livestock farms produce animal wastes. Fertilizers, pesticides, herbicides and the soil itself can be washed off of croplands. All of these can migrate into local streams and water bodies.

Urban runoff from roads, parking lots, industrial areas and construction sites can carry various chemicals, heavy metals and soil particles. If runoff carrying these various chemicals does not receive treatment, it can be considered a non-point pollution source. The following land use classifications could be considered possible non-point pollution sources:

- 1 Urban (all numbers beginning with 1)
- 21 Croplands
- 23 Feeding operations
- 76 Transitional (all numbers beginning with 76)

LAND USE CLASSIFICATION CATEGORIES*

1. URBAN
 - 11 Residential
 - 12 Commercial/Services/Institutional
 - 122 Auto Junk/Salvage Yards
 - 124 Schools/Churches
 - 126 Military
 - 127 Medical Services
 - 128 Water Treatment Facilities
 - 129 Sewage Treatment Facilities
 - 13 Industrial
 - 14 Transportation/Communications/Utilities
 - 141 Highways
 - 142 Railways
 - 143 Airports
 - 144 Marine
 - 145 Communications
 - 146 Utilities
 - 17 Other Urban
 - 171 Floodwalls, Levies, Seawalls
 - 172 Cemeteries
 - 173 Recreation--Golf Courses, Ski Areas, Playgrounds
 - 174 Urban vacant
 - 175 Parks
2. AGRICULTURE
 - 21 Cropland
 - 22 Orchards
 - 23 Feeding Operations
 - 24 Cranberry Bogs
 - 29 Other Agricultural
3. RANGELAND
 - 31 Herbaceous Range
 - 32 Shrub/brush Range
 - 33 Mixed
4. FORESTLAND
5. WATER
 - 51 Waterways, Streams and Canals
 - 52 Lakes (Natural)
 - 53 Reservoirs (Man-made)
 - 54 Bays and Estuaries
6. WETLANDS
 - 61 Forested Wetlands
 - 62 Nonforested Wetlands
7. BARREN LANDS
 - 72 Beaches
 - 73 Sandy areas
 - 75 Extraction
 - 76 Transitional
 - 764 Future Transportation
 - 766 Dumps and Landfills
 - 769 Unidentifiable

*Adapted from the U.S.G.S. Professional Paper 964, 1976.

REFERENCE SECTION

Aerial Photography

<u>Date</u>	<u>Source</u>	<u>Approximate Original Scale</u>
December 13, 1938	National Archives and Records Service	1:28,800
May 23, 1947	National Oceanographic Survey	1:24,000
September 28, 1951	National Oceanographic Survey	1:10,000
May 1, 1956	National Oceanographic Survey	1:30,000
May 1, 1961	United States Geological Survey	1:24,000
April 10, 1962	National Oceanographic Survey	1:30,000
September 17, 1966	National Oceanographic Survey	1:15,000
June 1, 1967	National Oceanographic Survey	1:19,700
February 27, 1974	United States Geological Survey	1:24,000

Geological Survey U.S. Topographic Maps

<u>Date</u>	<u>Type and Location</u>	<u>Scale</u>
1979	7.5-minute topographic New Bedford North, Mass.	1:25,000
1977	7.5-minute topographic New Bedford South, Mass.	1:25,000

Sanborn Map Company Maps

<u>Date</u>	<u>Title</u>	<u>Volume</u>
1924	New Bedford, Mass.	1-3
1924-1950 revised	New Bedford, Mass.	1-3
1950-1975 revised	New Bedford, Mass.	1-3

Publications

A Land Use and Land Cover Classification System for Use With Remote Sensor Data,
Geological Survey Professional Paper 964, 1976.

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